



TECHNICAL DATA SHEET INDOOR CABLE

Flat Zipcord Cable FCA-XX-X-FZ-X-X-EX / 2 Fibers

Description

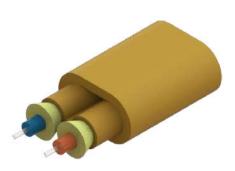
Waveoptics Flat Zipcord Cables are designed for indoor and interconnection applications, general installation purposes, data centers or patch cord production, where consistency and uniformity are required for fast terminations. Flat Zipcord Cables consist of a zipcord sub-unit, covered by a flame retardant outer jacket.

The optical fibers are under a protective cover made of acrylate and a tight buffer. Aramid yarn as a strength member to provide excellent tensile strength during installation.

The following jacket and tight buffer materials are available:

PVC RISER: used in vertical installations. Prevents the spread of flames to higher floors, in case of fire. Riser cable jackets are rated for flame generation and are held to a lower standard compared to plenum cables.

PVC PLENUM: ideal for applications in spaces with good air circulation, such as low ceilings or under elevated floors. Resistant to fire and produces low smoke when burned. Cable jackets used in plenum spaces are rated for both flame and smoke generation.



FLAT ZIPCORD CABLE 2.0MM OFNR 02F G652D S EX

Quality

Waveoptics is a ISO-9001: 2015 certified company.

We meet or exceed the following international standards:

- Telcordia GR-409: Generic requirements for indoor fiber optic cable.
- IEC 60794: Basic requirements for optical fiber and cable elements.

Each Waveoptics cable meets the highest quality standards in the industry and contains a compliance certificate in which the performed tests in our quality laboratory are physically attached.

Applications:



Indoor











Riser Cable Plenum Cable

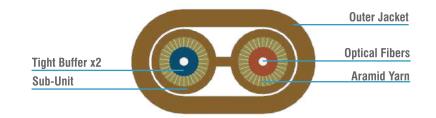
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Dimensions and Properties

TECHNICAL DATA SHEET INDOOR CABLE FCA-XX-X-FZ-X-X-EX / 2 fibers



Design	
Fiber count	2
Fiber color code	1 2
Tight buffer diameter	0.9 mm (0.04 in) (±5%)
Dielectric strength member	Aramid yarn
Outer jacket / sub-unit / tight buffer material*	PVC Riser / PVC Plenum
Reel length	1 km (3,281 ft) (±5%)
Temperature range	
Operation	0°C to 70°C (32°F to 158°F)
Installation	0°C to 60°C (32°F to 140°F)
Storage / transport	-40°C to 70°C (-40°F to 158°F)
Mechanical properties	
Maximum crush resistance	350 N/100mm
Minimum bend radius (operation / installation)	25 mm (1 in) / 50 mm (2 in)

Note: Waveoptics recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

*LSZH jacket also available upon request.

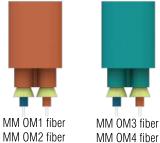
Outer jacket / sub-unit / tight buffer material	Sub-unit diameter (mm) (in) (±5%)	Nominal outer dimensions (mm) (in) (±5%)	Thickness (outer jacket / sub-unit) (mm) (in)	Tensile strength (N) (lbf) long-term / short-term	Cable weight (kg/km) (lb/kft) (±10%)
PVC Riser		3 x 5.4 (0.12 x 0.21)	0.5 (0.02) / 0.3 (0.012)	10 / 40 / 27 / 0)	16.2 (10.9)
PVC Plenum	2 x 4.4 (0.08 x 0.17)			12 / 40 (2.7 / 9)	18.5 (12.4)

Outer Jacket Color Guide





MULTI MODE FIBER



Orange



MM 0M4 fiber Aqua

MM 0M5 fiber

Lime Green

Folio P

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-043-01-FN

Last Review 2/17/2021



TECHNICAL DATA SHEET INDOOR CABLE

Printed Information on Outer Jacket

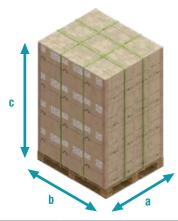
FCA-XX-X-FZ-X-X-EX / 2 fibers

=/MONTH//YEAR/ WAVEOPTICS= =FLAT ZIPCORD= =/FIRE RATING/= =/FIBER TYPE/= =/FIBER COUNT/= =/METERS*/ M= =/LOT #/=

- Printed in black, except for dark colored cables, which will be printed in white. Marking interval: every 1 meter + 1% or 2 feet + 1%. The marking can be changed according to customer requirements. ٠
- .
- *The standard marking interval is every 1 meter, in case the marking requirement is in feet, a notification on the purchase order would be necessarv.

Reel Dimensions and Pallet Packaging Information





Outer jacket / tight buffer material	Nominal outer dimensions (mm) (in) (±5%)	Reel length (m) (ft) (±5%)	A (mm) (in) (±5%)	B (mm) (in) (±5%)	Reel weight (kg) (lb) (±10%)	Pallet capacity (m) (ft) (±5%)		b (mm) (in) (±5%)	c (mm) (in) (±5%)
PVC Riser	3 x 5.4	1,000 (3,281)	457 (18)	340 (13)	19.7 (43.4)	18,000 (59,055)	1,100 (43)	1,200 (47)	1,556 (61)
PVC Plenum	PVC Plenum (0.12 x 0.21)				22 (48.5)		1,100 (10)		

Note 1: please contact your sales agent for different reel lengths available. *Note 2: all documentation included in the packaging is in english, if a different language is needed, please contact your sales agent.



1.- Reel handling instructions.

www.waveoptics.net info@waveoptics.net 3.- Product description (weight, dimensions, lot and part number)

Folio PI-043-01-EN



TECHNICAL DATA SHEET INDOOR CABLE

Transmision Performance by Fiber Type

FCA-XX-X-FZ-X-X-EX / 2 fibers

Fiber type	Single Mode				Multi Mode				
Waveoptics fiber type	G652.D	G657.A1	G657.A2	G657.B3	0M1	0M2	OM3	OM4	0M5
Waveoptics fiber code	F	Т	E	N	В	L	М	Р	V
OFS® fiber type	G652.D	AllWave® FLEX	AllWave® FLEX+	EZ-Bend®	62.5 um Laser Optimized	50 um Graded Index	LaserWave® FLEX 300	LaserWave® FLEX 550	LaserWave [®] WideBand
OFS [®] fiber code	1	2	3	6	5	8	9	0	4
Wavelength (nm)		1310,	/1550			850/1300			
Max. attn. (dB/km) (1)	0.4/0.3	0.4/0.3	0.4/0.3	0.4/0.3	3.4/1	3/1			
Min. bandwidth (MHz*km) (2)	i			200/500	750/500	1500/500	3500/500	3500/500	
1-Gigabit ethernet distance (m) (3)	-				300	750	> 550	> 550	> 550
10-Gigabit ethernet distance (m) (4)	_				_	150	300	400	400
40/100-Gigabit ethernet distance (m) (5)	-				-	-	100/70	150/100	150/100
Cable marking specifications	G652.D	G657.A1	G657.A2	G657.B3	OM1	0M2	OM3	OM4	0M5
Netes				-					

Notes:

(1) Maximum attenuation after cabling process.

(2) OFL (overfilled launch) bandwidth measurement.

(3) 1-Gb/s at 850 nm transmissions based on IEEE 802.3z test protocol.

*For more information about the optical fibers, consult the corresponding data sheets.

Part Number Configuration

FCA-XX-X-F7-X-X-FX

Sub-unit outer diameter 20 - 2.0 x 4.4 mm

Waveoptics optical fiber type F - SM G652.D

L - MM OM2 TRUE BEND

M - MM OM3 TRUE BEND

P - MM OM4 TRUE BEND

V - MM OM5 TRUE BEND

T - SM G657.A1

E - SM G657.A2

N - SM G657.B3

B - MM 0M1

OFS[®] optical fiber type

- 1 SM G652.D
- 2 AllWave® FLEX
- 3 AllWave® FLEX+
- 6 EZ-Bend®
- 5 62.5 um Laser Optimized
- 8 50 um Graded Index
- 9 LaserWave® FLEX 300
- 0 LaserWave® FLEX 550
- 4 LaserWave® WideBand

Outer jacket material Tight buffer diameter

R - PVC Riser

P - PVC Plenum

(4) 10-Gb/s at 850 nm transmissions based on IEEE 802.3ae test protocol.

(5) 40/100-Gb/s at 850 nm transmissions based on IEEE P802.3ba test protocol.

- 9 900 um

Optical cable compliance

- EX Waveoptics standard
- AC Buy American Act compliance



Note: please contact your Waveoptics distributor if you need any additional compliance or if you have questions about the part number configuration.

Folio PI-043-01-EN

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